



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

October 23, 2018	EPA Reg. No./File Symbol 11678-66	Page 1 of 8
Applicant's / Registrant's Name & Address Adama Makhteshim, Ltd. c/o Makhteshim Agan of North America 3120 Highwoods Blvd., #100 Raleigh, NC 27604		Product Bifenthrin Technical
Ingredient Bifenthrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Chemistry Data Requirements					
830.1550	Product Identity and Composition	46029708	Adama Makhteshim, Ltd.	OWN	
		46355801	Adama Makhteshim, Ltd.	OWN	
		46387501	Adama Makhteshim, Ltd.	OWN	
		50637301	Adama Makhteshim, Ltd.	OWN	
830.1600	Description of Materials Used to Produce the Product	46029708	Adama Makhteshim, Ltd.	OWN	
		46355801	Adama Makhteshim, Ltd.	OWN	
		46387501	Adama Makhteshim, Ltd.	OWN	
		50637301	Adama Makhteshim, Ltd.	OWN	
830.1620	Description of Production Process	46029708	Adama Makhteshim, Ltd.	OWN	
		46355801	Adama Makhteshim, Ltd.	OWN	
		46387501	Adama Makhteshim, Ltd.	OWN	
		50637301	Adama Makhteshim, Ltd.	OWN	
830.1650	Description of Formulation Process				See Note ¹
830.1670	Discussion of Formation of Impurities	46029708	Adama Makhteshim, Ltd.	OWN	
		46355801	Adama Makhteshim, Ltd.	OWN	
		46387501	Adama Makhteshim, Ltd.	OWN	
		50637301	Adama Makhteshim, Ltd.	OWN	
830.1700	Preliminary Analysis	46029709	Adama Makhteshim, Ltd.	OWN	
		46355802	Adama Makhteshim, Ltd.	OWN	
		46387501	Adama Makhteshim, Ltd.	OWN	
		47804701	Adama Makhteshim, Ltd.	OWN	
830.1750	Certified Limits	50637302	Adama Makhteshim, Ltd.	OWN	
		46387502	Adama Makhteshim, Ltd.	OWN	
830.1800	Enforcement Analytical Method	50637301	Adama Makhteshim, Ltd.	OWN	
		50637303	Adama Makhteshim, Ltd.	OWN	

Signature 	Name and Title Miriam Frugis, Federal Regulatory Manager	Date Oct 23, 2018
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Ingredient Bifenthrin		

Physical and Chemical Characteristics					
830.6302	Color	46029707 46355802	Adama Makhteshim, Ltd.	OWN	
830.6303	Physical State	46029707 46355802	Adama Makhteshim, Ltd.	OWN	
830.6304	Odor	46029707 46355802	Adama Makhteshim, Ltd.	OWN	
830.6313	Stability (sunlight, temperatures, metals and ions)	46355802	Adama Makhteshim, Ltd.	OWN	
830.6314	Oxidation/reduction; chemical incompatibility	46029707	Adama Makhteshim, Ltd.	OWN	
830.6315	Flammability				See note ²
830.6316	Explosibility				See note ²
830.6317	Storage Stability	46029707 46355802 46508201 46518801 50637304	Adama Makhteshim, Ltd.	OWN	
830.6319	Miscibility				See note ³
830.6320	Corrosion Characteristics	46355802 46508201 50637304	Adama Makhteshim, Ltd.	OWN	
830.6321	Dielectric Breakdown Voltage				See note ⁴
830.7000	pH	46029707 46355802	Adama Makhteshim, Ltd.	OWN	
830.7050	UV/Visible Absorption	46355802 50637305	Adama Makhteshim, Ltd.	OWN	

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Ingredient Bifenthrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7100	Viscosity	46355802	Adama Makhteshim, Ltd.	OWN	
830.7200	Melting Point/Melting Range	46029707 50637306	Adama Makhteshim, Ltd.	OWN	
830.7220	Boiling Point/Boiling Range	46355802	Adama Makhteshim, Ltd.	OWN	
830.7300	Density/Relative Density/Bulk Density	46029707 46355802 50637307	Adama Makhteshim, Ltd.	OWN	
830.7370	Dissociation Constant in Water	46355802	Adama Makhteshim, Ltd.	OWN	
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	46355802	Adama Makhteshim, Ltd.	OWN	
830.7860	Water Solubility, Generator Column Method	46355802	Adama Makhteshim, Ltd.	OWN	
830.7950	Vapor Pressure	46355802	Adama Makhteshim, Ltd.	OWN	
Toxicology Data Requirements					
870.1100	Acute Oral Toxicity: Rat	46029701	Adama Makhteshim, Ltd.	OWN	
870.1200	Acute Dermal Toxicity: Rat	46029702	Adama Makhteshim, Ltd.	OWN	
870.1300	Acute Inhalation Toxicity: Rat	46029703	Adama Makhteshim, Ltd.	OWN	
870.2400	Primary Eye Irritation: Rabbit	46029704	Adama Makhteshim, Ltd.	OWN	
870.2500	Primary Dermal Irritation: Rabbit	46029705	Adama Makhteshim, Ltd.	OWN	
870.2600	Dermal Sensitization	46029706	Adama Makhteshim, Ltd.	OWN	

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Ingredient Bifenthrin		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Generic Data Requirements					
		Cite-All	Spray Drift Task Force	OWN	See Note ⁵
		Cite-All	Outdoor Residential Exposure Task Force	OWN	See Note ⁵
		Cite-All	Agricultural Re-Entry Task Force	OWN	See Note ⁵
		Cite-All	Agricultural Handler Exposure Task Force	OWN	See Note ⁵
		Cite-All	Generic Endangered Species Task Force	OWN	See Note ⁵
		Cite-All	Bifenthrin Task Force	OWN	See Note ⁵
		Cite-All	See Company List on Pages 6 & 7	PAY	

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Ingredient Bifenthrin		

Signature 	Name and Title Miriam Frugis, Federal Regulatory Manager	Date Oct 23, 2018
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Endnotes for Data Matrix for Bifenthrin Technical

- ¹ **830.1650 – Description of Formulation Process:** The product is not an end-use product. See 830.1620 for a description of the production process.
- ² **830.6315 & 830.6316 – Flammability and Explodability:** With a melting point of 70 - 72°C, the product is not flammable and has no explosive properties.
- ³ **830.6319 – Miscibility:** The product is not an emulsifiable liquid.
- ⁴ **830.6321 – Dielectric Breakdown Voltage:** This guideline is not required for a manufacturing use product.
- ⁵ Adama Makhteshim is a member in good standing.

Company Name & Address	Company Name & Address
Syngenta Crop Protection, LLC P.O. Box 18300 410 Swing Road, Greensboro, NC 27419	Arizona Chemical Group, LLC Pyxis Regulatory Consulting, Inc. 4110 136 th Street Ct., NW Gig Harbor, WA 98332
Nufarm Americas, Inc. 4020 Aerial Center Pkwy, Suite 101 Morrisville, NC 27560	Southern States Cooperative, Inc. Registrations By Design, Inc. P.O. Box 1019 Salem, VA 24153
Bayer Crop Science, LP P.O. Box 12014 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Nippon Soda Co., Ltd. Nisso America Inc. 88 Pine Street, 14 th Floor New York, NY 10005
FMC Corporation 2929 Walnut Street Philadelphia, PA 19104	The Andersons, Inc. P.O. Box 119 1947 Briarfield Blvd. Maumee, OH 43537
Bayer Environmental Science A Division of Bayer Cropscience LP 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Sunniland Corporation P.O. Box 8001 Sanford, FL 32772
BASF Corporation P.O. Box 13528 26 Davis Drive Research Triangle Park, NC 27709	Chemsico A Division of United Industries Corp. P.O. Box 142642 St. Louis, MO 63114
The Scotts Company 14111 Scottslawn Road Marysville, OH 43041	Lesco, Inc. 1385 East 36 th Street Cleveland, OH 44114
Lebanon Seaboard Corporation 1600 E. Cumberland Street Lebanon, PA 17042	Loveland Products, Inc. P.O. Box 1286 Greeley, CO 80632
McLaughlin Gormley King Co. D/B/A MGK 8810 Tenth Ave. North Minneapolis, MN 55427	Howard Fertilizer & Chemical Co., Inc. Registrations By Design, Inc. P.O. Box 1019 Salem VA 24153
Fuller System, Inc. P.O. Box 3053 Woburn, MA 01888	Albaugh, LLC P.O. Box 2127 Valdosta, GA 31604
Sergeant's Pet Care Products, Inc. P.O. Box 540399 Omaha, NE 68154	BASF Sparks LLC P.O. Box 13528 Research Triangle Park, NC 27709
Aceto Agricultural Chemicals Corp. 4 Tri Harbor Court Port Washington, NY 11050	Control Solutions, Inc. 5903 Genoa Red Bluff Pasadena, TX 77507
S.C. Johnson & Son, Inc. 1525 Howe Street Racine, WI 53403	Arysta Lifescience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513
AMVAC Chemical Corporation 4695 Macarthur Court, Suite 1200 Newport Beach, CA 92660	Valent U.S.A. LLC 1600 Riviera Avenue, Suite 200 Walnut Creek, CA 94596
Helena Agri-Enterprises, LLC D/B/A The Helena Products Group 7664 Smythe Farm Road Memphis, TN 38120	Pyrethroid Working Group c/o Landis International, Inc. P.O. Box 5126 Valdosta, GA 31603

Bengal Products Inc. 13739 Airline Hwy Baton Rouge, LA 70817	Tacoma Ag, LLC Pyxis Regulatory Consulting, Inc. 4110 136 th St., Ct NW Gig Harbor, WA 98322
United Phosphorous Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406	Sharda USA LLC Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 197007
Sapstain Industry Group (SIG) Janssen PMP 1125 Trenton-Harbourton Rd. Titusville, NJ 09560	Ensystem IV, Inc. Pyxis Regulatory Consulting, Inc. 4110 136 th St. Gig Harbor, WA 98322
Non-Dietary Exposure Task Force (NDETF) CSPA/PIR 1667 K Street NW, Suite 300 Washington, DC 20006	Ragan and Massey, Inc. Pyxis Regulatory Consulting, Inc. 4110 136 th St., Ct NW Gig Harbor, WA 98322
Nisso TM LLC 88 Pine Street, 14 th Floor New York, NY 10005	Wet & Forget USA Ltd. Lewis & Harrison, LLC 122 C Street, N.W., Suite 505 Washington, DC 20001
Univar Environmental Sciences Building 1, Suite 210 10529 Heritage Bay Blvd. Naples, FL 34120	Kaizen Technologies, LLC Lighthouse Product Services 3720 Woodhaven Lane Johnston, CO 80534
FIFRA Endangered Species Task Force c/o Compliance Services International 7501 Bridgeport Way, West Lakewood, WA 98499	Solutions Pest & Lawn Biologic Consulting, Inc. 10529 Heritage Bay Blvd. Naples, FL 34120
Residential Exposure Joint Venture CSPA/PIR 1667 K Street, NW, Suite 300 Washington, DC 20006	Vive Crop Protection Inc. OMC Ag Consulting, Inc. 828 Tanglewood Ln. East Lansing, MI 48823
Atex, Inc. Landis International, Inc. P.O. Box 5126 3185 Madison Highway Valdosta, GA 31603	Prime Source LLC Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707
Osmose Utilities Services, Inc. 635 Hwy 74 S. Peachtree City, GA 30269	Liberty Crop Protection, LLC 1880 Fall River Dr., #100 Loveland, CO 80538
Ensystem II, Inc. Pyxis Regulatory Consulting, Inc. 4110 136 th St., NW Gig Harbor, WA 98322	Atticus, LLC Pyxis Regulatory Consulting, Inc. 4110 136 th St., Ct NW Gig Harbor, WA 98322
Sharda Cropchem Limited Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707	Genmerica NA LLC GHB Consulting 1660 3 rd Ave. S.W. Lemars, IA 51031
Winfield Solutions, LLC P.O. Box 64589 1080 County Rd. F West, MS5705 St. Paul, MN 55164	Tevra Brands, LLC Pyxis Regulatory Consulting, Inc. 4110 136 th St., Ct NW Gig Harbor, WA 98322